

# FE185

Diagram No. 1000-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey ... Field Examination .....

Field No. ....

Office No. .... FE-185 .....

### LOCALITY

State ... Maine .....

General Locality ... Penobscot River .....

Locality ... Bucksport .....

19 62

CHIEF OF PARTY

E. L. Jones .....

### LIBRARY & ARCHIVES

DATE ... December 11, 1962 .....

☆ U.S. GOV. PRINTING OFFICE: 1978-666-172

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.4 1962

# FE185



**F E No. 4**  
**1962**

FE-185

Diag. Cht. No. 1000-3.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

**DESCRIPTIVE REPORT**

Type of Survey Hydrographic  
Field No. Special Project Office No. F.E.No. 4  
21-62 (1962)

**LOCALITY**

State Maine  
General locality Penobscot River  
Locality Bucksport, Me.

1962

**CHIEF OF PARTY**

Edmund L. Jones

**LIBRARY & ARCHIVES**

DATE

DEC 11 1962

COMM-DC 61300

**F E No. 4**  
**1962**



DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. \_\_\_\_\_

Field No. Special Project 21-62

State Maine

General locality Penobscot River

Locality Bucksport

Scale 1:10,000 Date of survey 12 & 13 September 1962

Instructions dated 30 July 1962

Vessel USC&GS Ship EXPLORER

Chief of party Edmund L. Jones

Surveyed by John W. Bricker

Soundings taken by fathometer, graphic recorder, hand lead, wire

Fathograms scaled by N. Y. Wright

Fathograms checked by John W. Bricker

Protracted by John W. Bricker

Soundings penciled by John W. Bricker

Soundings in fathoms feet at MLW MLLW are true depths

REMARKS: \_\_\_\_\_

# DESCRIPTIVE REPORT

To Accompany Hydrographic Survey

SP-21-62

1962 - Scale 1:10,000

USC&GS Ship EXPLORER

E. L. Jones, Comdg.

## A. PROJECT

Hydrography was accomplished in accordance with "Instructions-Special Project 21-62, Uncharted Shoal, Penobscot River, Maine" dated 30 July 1962.

## B. AREA SURVEYED

This survey consists of an investigation of an uncharted shoal in the Penobscot River between latitudes  $44^{\circ}-25.5'N$  and  $44^{\circ}-30.2'N$  and longitudes  $68^{\circ}-47.6'W$  and  $68^{\circ}-48.2'W$ . Field work was done on 12 and 13 September 1962. The hydrographic investigation was of sufficient detail to delineate the shoaling and junction with soundings transferred from C&GS Chart 311.

## C. SOUNDING VESSEL

All hydrography was done by Launch #2 from the Ship EXPLORER with LTjg John W. Bricker, O. in C.

## D. SOUNDING EQUIPMENT

All hydrography was done using a Raytheon DE-723 fathometer, serial number 247. The calibrated speed of the fathometer was 800 fms/sec. Least depths were verified by the hand lead.

## E. SMOOTH SHEETS

A smooth overlay was made on tracing cloth by LTjg John W. Bricker.

## F. CONTROL

A boat sheet was furnished by the Washington Office showing shoreline and visual objects made from a photo compilation of surveys T-8037 and T-8038 at 1:10,000 scale.

## G. SHORELINE

See section F.

## H. CROSSLINES

Crosslines made up 24% of the hydrography. There was good agreement on the crosslines, and no resolving on the smooth overlay was necessary.



I. JUNCTIONS

Junctions to prior surveys were not required on this project.

J. COMPARISON WITH PRIOR SURVEYS

Not applicable.

K. COMPARISON WITH CHART

The largest scale chart of this area is Chart 311.

A comparison of this chart with the boat sheet indicates general agreement with the soundings. Hand printed soundings on C&GS Chart 311 in the vicinity of the reported shoal were in general agreement. Therefore, no report of danger to navigation was submitted to the Coast Guard at the time of the survey. *See Review #4*

L. ADEQUACY OF SURVEY

The survey of the project area is believed to be complete and adequate.

M. AIDS TO NAVIGATION

There were no fixed aids to navigation in the project area.

The following floating aids to navigation fell within the project area and were located as plotted on smooth plot overlay.

- (1) Penobscot River Buoy "3"
- (2) Penobscot River Buoy "4"
- (3) Penobscot River Buoy "5"

N. STATISTICS

<u>Launch No.</u>	<u>Number of Positions</u>	<u>Naut. Miles</u>
2	197	18.2

A total of 0.5 square miles were surveyed on this project.

29 November 1962

Respectfully submitted

*John W. Bricker*  
John W. Bricker  
LTjg, C&GS

Approved

*Edmund L. Jones*  
Edmund L. Jones  
CAPT, C&GS  
Comdg., Ship EXPLORER

*See Chart letter 1018/62*  
788



APPROVAL SHEET

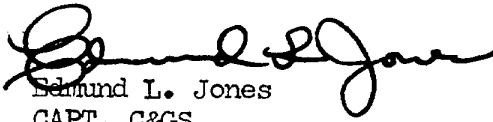
Hydrographic Survey

Special Project - 21-62

The field work on this project was done by a detached launch party under the field charge of LTjg John W. Bricker. The boat sheet and records were not examined until after the investigation was completed and the party returned to the ship.

The survey is approved. It is complete and adequate with no additional field work recommended.

29 November 1962

  
Edmund L. Jones  
CAPT, C&GS  
Comdg., Ship EXPLORER



TIDE NOTE

To Accompany Hydrographic Survey

Special Project - 21-62

USC&GS Ship EXPLORER

Final tide reducers for the project area were adjusted and furnished by the Washington Office for Fort Point, Penobscot River, Maine from the standard gage at Bar Harbor, Maine.



# ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

To Accompany

Special Project - 21-62

Launch No. 2. Raytheon DE-723 Fathometer No. 247

a day	<u>Depth (ft.)</u>	<u>Corr. (ft.)</u>
	12-27.5	-0.4
	27.6-38	-0.2
	38.1-46.5	0.0
	46.6-53.5	+0.2
	53.6-60	+0.4
	60.1-66	+0.6
	66.1-71.5	+0.8
	71.6-77	+1.0
	77.1-81	+1.2

b day	<u>Depth (ft.)</u>	<u>Corr. (ft.)</u>
	12-19	-0.8
	19.1-30	-0.6
	30.1-39.5	-0.4
	39.6-47.5	-0.2
	47.6-54.5	0.0
	54.6-60.5	+0.2
	60.6-66	+0.4
	66.1-71	+0.6
	71.1-76	+0.8
	76.1-81	+1.0

Phase Comparisons  
Fathometer Raytheon DE-723 - No. 247

Correction (ft.)  
Scale A - B None

SIGNAL NAMES

Special Project - 21-62

<u>Signal</u>	<u>T-Sheet</u>
ACE	T-8037
ACT	T-8037
BED	T-8038
TOW	T-8038



RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 29 1963

Nautical Chart Division: R. H. Carstens

Plane of reference approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET F.E.NO.4 (1962)

Locality Penobscot River, Maine

Chief of Party: E. L. Jones (1962)

Plane of reference is mean low water

ft. on tide staff at

ft. below B. M.

Height of mean high water above plane of reference at the  
working ground is: 10.3 feet.

Condition of records satisfactory except as noted below:

  
\_\_\_\_\_  
Chief, Tides and Currents Branch

## Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. *F.E.* No. 4 (1962)

Records accompanying survey: Smooth sheets .....  
 boat sheets *.1*...; sounding vols. *...1*...; wire drag vols. ....;  
 Descriptive Reports *.1*....; graphic recorder envelopes *.1*...;  
 special reports, etc. *.1-Smooth sheet overlay (made part of this D.R.)*  
 .....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	<i>197</i>
Number of positions checked	<i>50</i>
Number of positions revised	<i>0</i>
Number of soundings revised (refers to depth only)	<i>0</i>
Number of soundings erroneously spaced	<i>0</i>
Number of signals erroneously plotted or transferred	<i>0</i>
Topographic details	Time <i>0</i>
Junctions	Time <i>0</i>
Verification of soundings from graphic record	Time <i>22 hrs</i>
Special adjustments	Time <i>0</i>

Verification by *Dr. Taylor*..... Total time *22 hrs* Date *2/18/66*

Reviewed by *Dr. Taylor*..... Time *12 hrs* Date *2/23/66*



FIELD EXAMINATION NO. 4, 1962

Penobscot River, Maine

1. The field examination was made in compliance with Instructions for Special Project 21-62, dated July 30, 1962.
2. The purpose of the examination was to prove or disprove the existence of a reported shoal in the Penobscot River at approximate lat.  $44^{\circ}30'00''$ , long.  $68^{\circ}47'58''$  on which the SS ESSO CHESTER had grounded.
3. The results of the examination are shown on the accompanying smooth plot overlay.
4. A comparison between the field examination and chart 311, 6th edition dated April 5, 1965 indicates the following:
  - a. The charted 33-ft. shoal reported at Lat.  $44^{\circ}30'00''$ , Long.  $68^{\circ}47'58''$  was not found during the examination and is considered to be disproved in the reported position.
  - b. The charted depth of 32 ft. at Lat.  $44^{\circ}29.90'$ , - Long.  $68^{\circ}47.87'$  originates with this examination. A 33-ft. uncharted sounding also originates with this investigation at Lat.  $44^{\circ}29.85'$ , Long.  $68^{\circ}47.92'$ .
  - c. It is recommended that the charted 60-ft. curve be extended 650 meters farther south to depict the channel through this shoal area.
5. The Descriptive Report adequately covers all other matters pertaining to this examination. No further discussion is considered necessary.

Reviewed by DM Taylor  
February 23, 1966  
Inspected by R. H. Carstens

BED (ODOMS LEDGE BEACON 1863-1944)

FE 4, 1962

SMOOTH PLOT OVERLAY  
 UNCHARTED SHOAL INVESTIGATION  
 PENOBSCOT RIVER, MAINE  
 SPECIAL PROJECT 21-62

SCALE 1:10,000

SEPT. 1962

SHIP EXPLORER

E. L. JONES, COMDG.

TOW

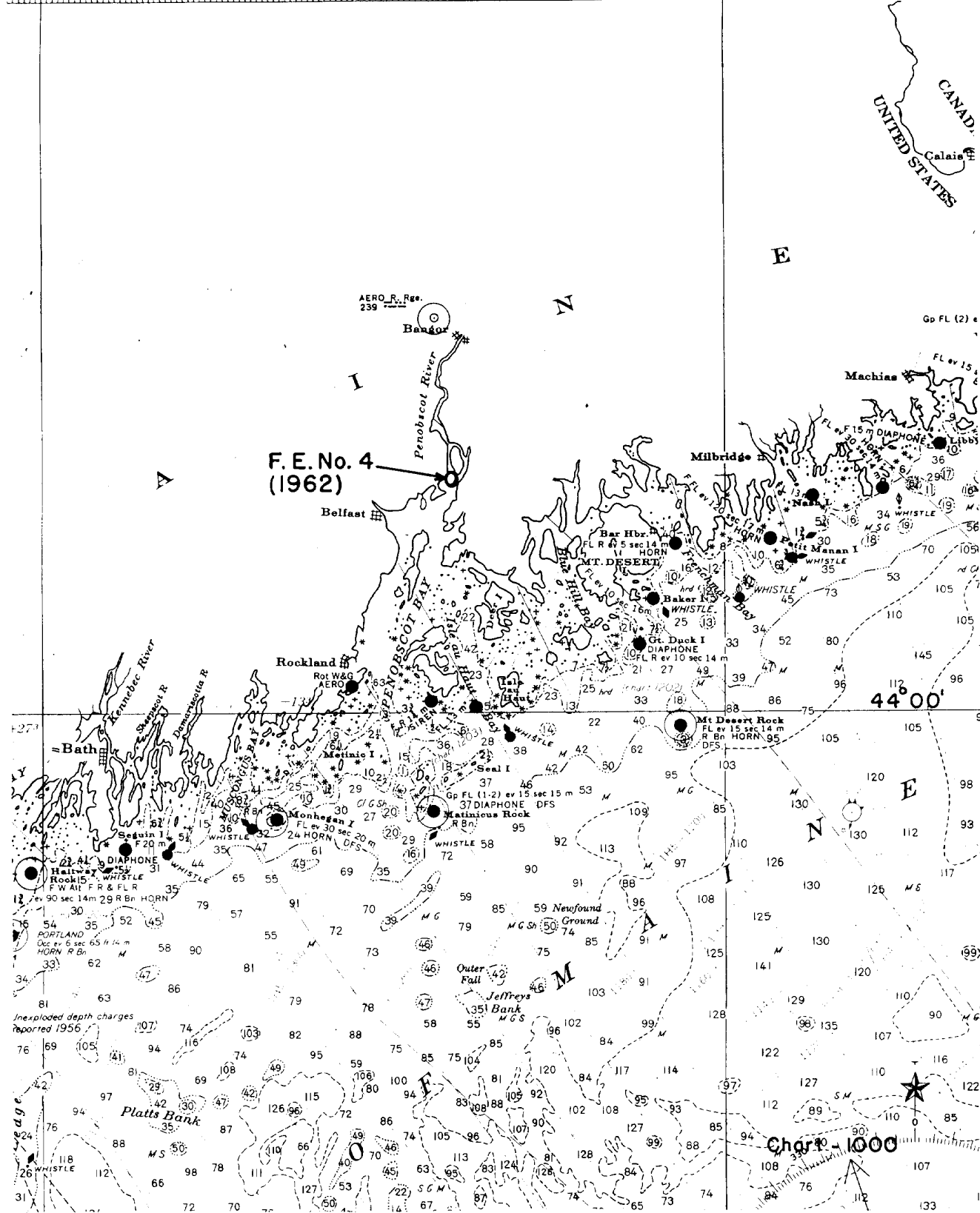
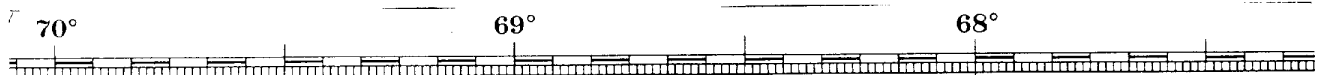
ACT

ACE

44°-30'

LEAST DEPTH 32½ FT.  
 P.O.S. NO. 506

68° 48'



F. E. No. 4  
(1962)

Chart 1000



## NAUTICAL CHARTS BRANCH

SURVEY NO. F.E.No.4-1962

## Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.